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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2003, 16:25:00 ; Search time 142.504 Seconds
(without alignments)
10334.327 Million cell updates/sec

Title: US-09-807-933B-8

Perfect score: 1017

Sequence: 1 atgaagtcacccgtgtctat.....caggtcggaagaagtaa 1017

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA:
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2: /cgn2_6/ptodata/1/pubpna/PC7_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	221.4	21.8	1473	10 US-09-735-787-3	Sequence 3, Appli
2	207.4	20.4	1423	9 US-10-007-521-9	Sequence 9, Appli
3	186	18.3	1154	9 US-10-007-521-7	Sequence 7, Appli
4	184	18.1	1174	9 US-10-007-521-11	Sequence 11, Appli
5	179.4	17.6	1060	10 US-09-735-787-1	Sequence 1, Appli
6	179.2	17.6	808	9 US-10-007-521-15	Sequence 15, Appli
7	179.2	17.6	1261	9 US-09-261-329-23	Sequence 23, Appli
8	179	17.6	894	9 US-10-007-521-3	Sequence 3, Appli
9	179	17.6	927	9 US-10-007-521-5	Sequence 5, Appli
10	179	17.6	960	9 US-10-007-521-1	Sequence 1, Appli
11	178.4	17.5	1031	9 US-10-007-521-19	Sequence 19, Appli
12	178.4	17.5	1048	9 US-10-007-521-17	Sequence 17, Appli
13	177.6	17.5	1132	9 US-10-007-521-21	Sequence 21, Appli
14	168.4	16.6	913	9 US-10-007-521-13	Sequence 13, Appli
15	168.2	16.5	885	9 US-10-007-521-23	Sequence 23, Appli
16	133.6	13.1	425	9 US-10-007-521-25	Sequence 25, Appli
17	104	10.2	936	7 US-08-841-636A-10	Sequence 30, Appli
18	68.8	6.8	225	9 US-10-007-521-31	Sequence 31, Appli
19	67.8	6.7	159	9 US-10-007-521-71	Sequence 71, Appli

20	63.8	6.3	177	9 US-10-007-521-33	Sequence 33, Appli
21	61	6.0	180	9 US-10-007-521-69	Sequence 69, Appli
22	60.6	6.0	159	9 US-10-007-521-47	Sequence 47, Appli
23	59	5.8	455	10 US-09-864-761-16588	Sequence 16588, A
24	58.6	5.8	1635	10 US-09-864-761-20241	Sequence 20241, A
25	58.6	5.8	1973	10 US-09-864-761-3471	Sequence 3471, Ap
26	58	5.7	1075	10 US-09-864-761-19241	Sequence 19241, A
27	58	5.7	1403	10 US-09-864-761-2513	Sequence 2513, Ap
28	56.4	5.5	114	9 US-10-007-521-61	Sequence 61, Appli
29	55.6	5.5	476	10 US-09-864-761-6	Sequence 6, Appli
30	55.2	5.4	436	10 US-09-864-761-2885	Sequence 2885, Ap
31	55	5.4	298	10 US-09-864-761-33063	Sequence 33063, A
32	54	5.3	171	9 US-10-007-521-51	Sequence 51, Appli
33	54	5.3	249	10 US-09-864-761-16846	Sequence 16846, A
34	53.8	5.3	180	9 US-10-007-521-71	Sequence 41, Appli
35	53	5.2	5526	9 US-10-083-357-668	Sequence 668, App
36	52.8	5.2	446	10 US-09-864-761-20699	Sequence 20699, A
37	52	5.1	165	9 US-10-007-521-77	Sequence 77, Appli
38	50.4	5.0	867	10 US-09-216-393-340	Sequence 340, App
39	50.4	5.0	867	10 US-09-216-393-342	Sequence 342, App
40	50.4	5.0	1397	10 US-09-216-393-343	Sequence 343, App
41	50.4	5.0	1397	10 US-09-216-393-345	Sequence 345, App
42	49.8	4.9	479	10 US-09-864-761-768	Sequence 768, App
43	49.8	4.9	830	10 US-09-864-761-19531	Sequence 19531, A
44	49.6	4.9	160	9 US-10-007-521-75	Sequence 75, Appli
45	49.6	4.9	1635	10 US-09-864-761-20241	Sequence 20241, A

ALIGNMENTS

RESULT 1
US-09-735-787-3
Sequence 3, Application US/09735787
Patent No. US20010036910A1
GENERAL INFORMATION:
APPLICANT: Rasmussen, Grethe
Mikkelsen, Jan Moller
Schlehn, Martin
Pakkar, Shankant A.
Hagen, Fred
TITLE OF INVENTION: A Cellulase Preparation Comprising an
Endoglucanase Enzyme
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESSES:
ADDRESSER: No. US20010036910A1o No. US20010036910A1disk of No. US200100369
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/735,787
FILING DATE: 13-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/189,028
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Eliae J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3469,214-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1473 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Fusarium oxysporum
STRAIN: DSM 2672
FEATURE:
NAME/KEY: CDS
LOCATION: 97..1224
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-735-787-3

Query Match 21.8%; Score 221.4; DB 10; Length 1473;
Best Local Similarity 63.9%; Pred. No. 1e-60;
Matches 371; Conservative 0; Mismatches 201; Indels 9; Gaps 2;

400 TCTGGAGTGTTCACAACTGTTATTGGATTGTTGAAAGCTTCTTGACGTGGCT 459
151 TCTGGAGCGGTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA 210
460 GGAAGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
211 GGAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 270
520 GATGCCAATGCTCAAGTGTGTA---CGTGTGTAATGTTTCAATGTTTCAACAC 576
271 AAGCAATGCTGCTCAAGTGTGTA---CGTGTGTAATGTTTCAATGTTTCAACAC 330
577 CAAGCTTGGCTGCTCAAGTGTGTA---CGTGTGTAATGTTTCAATGTTTCAACAC 636
331 TCTCCCTGGCTGCTCAAGTGTGTA---CGTGTGTAATGTTTCAATGTTTCAACAC 390
637 TCCACGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 696
391 GGTCCGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 450
697 TCTGGAAGAGTGTGTTTCAAGTGTGTA---CGTGTGTAATGTTTCAATGTTTCAACAC 756
451 AAGGCAAGAGTGTGTTTCAAGTGTGTA---CGTGTGTAATGTTTCAATGTTTCAACAC 510
757 TTTGATTGCAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 816
511 TTGATCTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 570
817 GCGCTCCCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 876
571 GG-----CAAGGCTCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTG 624
877 GCGCTCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 936
625 GATAGCTACCCGAGCTTCTCAAGAGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTG 684
937 TCTGATTAACCTACCACTGCTTCAAGAGAGTTACCTGCTC 977
685 GCGCAACCTGACTTCACTTGTAGCAGGTTCACTGCTC 725

RESULT 2
US-10-007-521-9
Sequence 9, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schulten, Martin
Andersen, Lene N.
Larsen, Soren F.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSER: No. US20030054539A1 No. US20030054539A1 disk of No. US200300545
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-May-1996

ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366, 200-US

TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1423 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

FEATURE:
NAME/KEY: CDS
LOCATION: 110..1156
SEQUENCE DESCRIPTION: SEQ ID NO: 9:

US-10-007-521-9
Query Match 20.4%; Score 207.4; DB 9; Length 1423;
Best Local Similarity 60.1%; Pred. No. 3.4e-56;
Matches 365; Conservative 0; Mismatches 236; Indels 6; Gaps 1;

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460 GGAAGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
233 GCGAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 292
520 GATGCCAATGCTCAAGTGTGTTGAAGTGTGTTGAAGTGTGTTGAAGTGTGTTGAAG 579
293 GATGCCAATGCTCAAGTGTGTTGAAGTGTGTTGAAGTGTGTTGAAGTGTGTTGAAG 352
580 CTTGGGCTGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 639
353 CTTGGGCTGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 412
640 AAGCAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 699
413 ACTGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 472
700 GGAAGAGTGTGTTTCAAGTGTGTTTCAAGTGTGTTTCAAGTGTGTTTCAAGTGTGTT 759
473 GCGAAGAGTGTGTTTCAAGTGTGTTTCAAGTGTGTTTCAAGTGTGTTTCAAGTGTGTT 532
760 GATTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 819
533 GACCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 592

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366-200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1174 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 60..956
 SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 US-10-007-521-11

Query Match 18.1%; Score 184; DB 9; Length 1174;
 Best Local Similarity 57.7%; Pred. No. 1,1e-48;
 Matches 353; Conservative 0; Mismatches 250; Indels 9; Gaps 1;

402 TGGAGATGCTTCCCACTGTTATTTGGATTTGTAAGCTTCTTGGAGCTGCGCTGG 461
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 462 AAAAGCTTGTCTCACTGCTCTGTTGAACCTGCTCTCAATGTAATCTTTATTA 521
 188 GAAAGCGCGCTGACCAACCGGCTCTACGCGTGATGCACTTCCAGCGCTGTCGA 247
 522 TGGCAATGCTCAAAAGTGTGTTAAGCGTGGTAATGTTATGTAACAACAACAAC 581
 248 CTTAATGTCAGTGGGCTGCAACGGGCGCTGCGCTTACCTTCCGCCCAACAGATCC 307
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 368 CGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 427
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 599 CTTCCTCCGCGCGCTCAAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 658
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 1002 TTGGCAAAAGAA 1013

Db 719 CTGCAAGCGCAA 730

RESULT 5
 US-09-735-787-1
 Sequence 1, Application US/09735787
 Patent No. US20010036910A1
 GENERAL INFORMATION:
 APPLICANT: Rasmussen, Grethe
 Mikkelsen, Jan Moller
 Schleißen, Martin
 Parker, Shankant A.
 Hagen, Fred
 TITLE OF INVENTION: A Cellulase Preparation Comprising an Endoglucanase Enzyme
 NUMBER OF SEQUENCES: 33
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. US20010036910A1 No. US20010036910A1disk of No. US200100369
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/735,787
 FILING DATE: 13-Dec-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/189,028
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 3469, 214-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: Humicola insolens
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 STRAIN: DSM 1800
 FEATURE:
 NAME/KEY: mat_peptide
 LOCATION: 73..924
 FEATURE:
 NAME/KEY: sig_peptide
 LOCATION: 10..72.
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 10..924
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 US-09-735-787-1

Query Match 17.6%; Score 179.4; DB 10; Length 1060;
 Best Local Similarity 59.0%; Pred. No. 3.2e-47;
 Matches 350; Conservative 0; Mismatches 231; Indels 12; Gaps 2;

416 CAACCTGTTATTTGGATTTGTTAAGCTTCTTGCAGCTGCGCTGGAAGCTTCTGCTCA 475
 86 CAACCGCTACTGGAGCTGCTGCAACCTTGTGCGGCTGGCCAAAGAGCTTCCCGTCA 145

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Qy 476 CTGTCCTGTTGACACCTGTCCTCCAGTATCTCTTTATTAGATCCAACTCTCAA 535
Db 146 ACAGACCTGCTTTTCTCGAAGCGCACTCCAGCGATACAGGACTTCAGCCCACT 205
Qy 536 GTGCTTTGA--CGGTGTATAGTTTCACTGTGTACACCAACCACTTGGGCTGCA 592
Db 206 CCGGCTGACCCGCGGCTGTCCCTCACTGTGTGCGGACAGACCCCATGGGCTGGA 265
Qy 593 ATGATGAGCTGCTTAAGCTTTCCTGCTGCTCATTTGCTGCTCCAAAGCACTGAT 652
Db 266 ACAGACCTGCTGCTGCTGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 325
Qy 653 GGTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 712
Db 326 GGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 385
Qy 713 TTGTTCAAGTTACCAACCGGCTGCGATTAGGCTTAACTTGAATTTGCAATGC 772
Db 386 TCGTCAGTCCACACGACCTGCGGCTGATCTTGGCAGACCACTTCGATCTCAACATCC 445
Qy 773 CCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 832
Db 446 CCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 496
Qy 833 GCTGCGGAGCTAGATATGATGATGATGATGATGATGATGATGATGATGATGATG 892
Db 497 TGCCCGGACGAGCTACGCGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 556
Qy 893 CTCTTCAAGCTGTTGTAATGAGATTCAACTGCTTCAAGAACTGTATACCTTACA 952
Db 557 CCTTCAAGCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 616
Qy 953 TGACCTTCAAGGATTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1005
Db 617 TCAGCTTCCGTCAGGTCAGTGCAGCCGAGCTGCTGCTGCTGCTGCTGCTGCTGCT 669

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RESULT 6

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US-10-007-521-15
; Sequence 15, Application US/10007521
; Publication No. US20030054539A1

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GENERAL INFORMATION:

```

APPLICANT: Schuelein, Martin

```

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Andersen, Lene N.

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Lassen, Soren F.

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Kauppinen, Markus S.

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Lange, Lene

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Nielsen, Rudy I.

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```

Ihara, Michiko

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```

Takagi, Shinobu

```

```

TITLE OF INVENTION: No. US20030054539A1el Endoglycanases

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```

NUMBER OF SEQUENCES: 109

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CORRESPONDENCE ADDRESS:

```

```

ADDRESSSEE: No. US20030054539A1o No. US20030054539A1disk of No. US200300545

```

```

STREET: 405 Lexington Avenue, 64th Floor

```

```

CITY: New York

```

```

STATE: New York

```

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COUNTRY: United States of America

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ZIP: 10174-6401

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COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk

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OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: Patent Release #1.0, Version #1.30

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CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/10/007,521

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FILING DATE: 10-Dec-2001

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CLASSIFICATION: <Unknown>

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PRIOR APPLICATION DATA:

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APPLICATION NUMBER: US/08/651,136

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FILING DATE: 21-MAY-1996

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ATTORNEY/AGENT INFORMATION:

```

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NAME: Lambirth, Elias J.

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REGISTRATION NUMBER: 33, 728
REFERENCE/DOCKET NUMBER: 4366, 200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 808 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 37..714
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-10-007-521-15
Query Match 17.6%; Score 179.2; DB 9; Length 808;
Best Local Similarity 58.4%; Pred. No. 3.2e-47;
Matches 354; Conservative 0; Mismatches 243; Indels 9; Gaps 2;

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Qy 415 ACAACTGTTATGGAATGTTGTTAAAGCTTCTTGACAGCTGCTGGAAGAACTTCTGTC 474
Db 118 ACAGACCGCTACTAGGAGCTGCTGCAAGCAAGCTGTGATGAGTGAAGGCTTCTGTT 177
Qy 475 ACTGTCCTGTTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 534
Db 178 TCTCTCCAGTCAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 237
Qy 535 AGTGTGTTAAAGCTGTTATGATGTTGTTGATGTTGTTGTTGTTGTTGTTGTTGTTGTT 594
Db 238 GGAATGATAGCGGTGAGCACTATTCATCTGCGGAAATATGATTCATTTGGCATTGAC 297
Qy 595 GATGAGCTGCTTACGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 654
Db 298 AATAACACTGATATGTTGTTGCTGCAAGCCACTAGGCGGCTCTAGAGGAGCAGCTGC 357
Qy 655 TGTGTGCTGTTATGATTTGATCTTCACTTCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCT 714
Db 358 TGTTCAGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 417
Qy 715 GTTCAAGTTACCAACACCGGTGCGGATTTAGGCTTCAACACTTGTGATTTGCAATGCC 774
Db 418 GTTCAAGTTACCAACACCGGTGCGGATTTAGGCTTCAACACTTGTGATTTGCAATGCC 477
Qy 775 GGTGTGCGCTGTTATCTTCA--ATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 831
Db 478 GGTGAGGTGTTGCTCTTCAACAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 535
Qy 832 GGTGTGCGGATGATATGTTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 891
Db 536 ---GGGTGCTCAATAGGGGGTGTGTCCAGCCGTGACCAATCTCCAACTTCCAGCA 591
Qy 892 GCTCTCAAGCTGTTGTTGATGAGATTCACTGTTCAAGAACTGTGATTAACCTTACC 951
Db 592 GCTGTCAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 651
Qy 952 ATGACCTTCAAGAAAGTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1011
Db 652 GTCACTTCCAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 711
Qy 1012 AAGTTA 1017
Db 712 AATGTA 717

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RESULT 7

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US-09-261-329-23

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; Sequence 23, Application US/09261329
; Publication No. US20030092097A1

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GENERAL INFORMATION:

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APPLICANT: Andersen, Kim

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APPLICANT: Schuelein, Martin
 APPLICANT: Christiansen, Lars
 APPLICANT: Damgaard, Bo
 APPLICANT: Von Der Osten, Claus
 TITLE OF INVENTION: Cellulase Variants
 FILE REFERENCE: 4887.204-US
 CURRENT APPLICATION NUMBER: US/09/261.329
 EARLIER FILING DATE: 1999-03-03
 EARLIER APPLICATION NUMBER: 1013/96
 EARLIER FILING DATE: 1996-09-17
 NUMBER OF SEQ ID NOS: 26
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 23
 LENGTH: 1261
 TYPE: DNA
 ORGANISM: Humicola grisea
 US-09-261-329-23

Query Match 17.6%; Score 179.2; DB 9; Length 1261;
 Best Local Similarity 56.4%; Pred. No. 4.2e-47;
 Matches 359; Conservative 0; Mismatches 268; Indels 9; Gaps 1;

QY 381 GGTCAATCTCTGGCGGTAATCTGGCAGTGGTCCAACTCCTTAATGGAATGTTTA 440
 DB 93 GCTCCCTTGGCCGACGCGCCGCAATGCAAGTGCACCAATACCTGGACTCTCA 132
 QY 441 AGCTTCTTCACTGCTGGTGAAGCTTCTGCACTGCTCTGTTACACCTGCTC 500
 DB 153 GGCATGCTCTTGGCCGGAAGGACCTGGAACAGCTGCTTCACTTCCAGCG 212
 QY 501 CAATGTAATCTTATTAATGCAATGCTCAAGTGGTTAAAGTGGTAATGTT 560
 DB 213 CAATTCAGGCGATCACCGCCCAATACCAAGTGGCTCGATGCGGCTCGGCT 272
 QY 561 CATGTAACAACAACAACCTTGGCTGCAATGATGCTGCTGCTGCTGCTGCTG 620
 DB 273 TTGCTGCTGCAAGACCCCTTGGCTTGAACGACATGCTGCTGCTGCTGCTG 332
 QY 621 TGCCTTATGCTGCTCAACGAGTGGATGCTGCTGCTGCTGCTGCTGCTGCT 680
 DB 333 CAGGCTATTTGGGATGATGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 392
 QY 681 CACTTCTGCGCTGCTTGGAAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 740
 DB 393 CACTGCGGCGCTGCTGCGGCAAGACATGCTGCTGCTGCTGCTGCTGCTGCTG 452
 QY 741 TTTAGGCTTAACCACTTGAATGCAATGCGGCTGCTGCTGCTGCTGCTGCTG 800
 DB 453 TCTGCGGCAACCACTTTCAGACTCCAGATTCAGCGGCGGCTGCTGCTGCTG 512
 QY 801 CTGTGCTGCTCAATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 860
 DB 513 GTGCAACCCCGATGCTGAGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 563
 QY 861 CTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 920
 DB 564 AGACCGGAGCTGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 623
 QY 921 CAAGTGTCAAGAACTGTAACCTTACATGACCTTCAAGAAAGTATTAATGCTG 980
 DB 624 CCAATGCTTCAAGAAAGCGCAACCCGACCTTACCTTCAAGCAAGTGCAGTCCCG 683
 QY 981 TGAATTAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1016
 DB 684 CGAGCTGTGCTGCAAGACCGGCTGCAAGCGCGAGGA 719

RESULT 8
 US-10-007-521-3
 : Sequence 3: Application us/10007521
 : Publication No. US20030054539A1
 : GENERAL INFORMATION:
 : APPLICANT: Schuelein, Martin

Anderesen, Lene N.
 Laassen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Rudy I.
 Ihara, Michiko
 Takagi, Shinobu
 TITLE OF INVENTION: No. US20030054539A1 Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. US20030054539A1C No. US20030054539A1disk of No. US200300545
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 894 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..891

SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-10-007-521-3

Query Match 17.6%; Score 179; DB 9; Length 894;

Best Local Similarity 62.8%; Pred. No. 3.9e-47;

Matches 278; Conservative 0; Mismatches 165; Indels 0; Gaps 0;

QY 547 GGTGTAATGCTTCAATGTAACAACAACAACCTTGGGCTGTCATGATGAGCTGCT 606
 DB 211 GGGGGAAGGCGCTACATGCTGCTCCAGAGCCCTGGGCGTCAAGCAAGACTCTG 270
 QY 607 TAGGTTGCGTGGCTCTAATGCTGCTCCAGAAAGTGAATGCTGCTGCTGCTG 666
 DB 271 TACGCTGGGCGGCGCTCAAGCTGCGGCAAGTCCAGTCCAGTGGTGGCTGCTG 330
 QY 667 TATGAATGACCTTCACTTCTGCGGCTGCTTCTGGAAGAAGATGCTTCAAGTACC 726
 DB 331 TACGAGCTGACCTTCAACAGGCGGCTGCGGCGGAAGAAGATGATGTCAGAGCAC 390
 QY 727 AACCGGAGGGAATTAAGCTTAACAACCTTGAATTTGCAATGCGCGTGGGCTT 786
 DB 391 AACACGGGGAAGCTGCGGGAACAACCTTGAACCTGCGCAATCCGGGAGGCTC 450
 QY 787 GGTATCTCAATGCTGCTGCTCAATGAGGCGCTCCCAATGATGCTGAGGAGCTAGA 846
 DB 451 GGTATTTCAAGCTGACGACAGCTACGAGGCTGCTCCCGAAGGCTGAGGAGCACCC 510
 QY 847 TATGCTGTACAGCTGCTCTGACTGCTGCTTCTTCCCTGCTTCAAGCTGCT 906

Db 511 TACGCGGCGATCCATTCGAAGAGAGTGCGAATCTTCCCGAGGCGCTCAACCCGGC 570
Qy 907 TGTAAATGAGATTCACCTGGTTCGAAGACTCTGATTAACCTTACATGACCTTGAAGAA 966
Db 571 TGCACCTGGCGCTTCGACTGGTTCGAAGACCGCAACCCGCTGCTACCTTCCAGAG 630
Qy 967 GTTACTGTCTCTGCTGATTAAC 989
Db 631 GTGGCTTGGCCGCTGGAGCTCAC 653

RESULT 9
US-10-007-521-5
Sequence 5, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schulein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kaupinen, Markus S.
Lange, Lene
Nielsen, Rudy I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007.521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651.136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 927 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..924
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-007-521-5

Query Match 17.6%; Score 179; DB 9; Length 927;
Best Local Similarity 62.8%; Pred. No. 4e-47;
Matches 278; Conservative 0; Mismatches 165; Indels 0; Gaps 0;

Qy 547 GGTGTAAATGCTTCATGATTAACAACAACCTTGGGCTGTGATGATGAGCTGCT 606
Db 211 GCGCGACGCGCTACATGTGCTCTCCAGAGACCCCTGGGCGGTGACGAGAGCTGCG 270

Qy 607 TACGATTCCGTGCTGCTCTATTTGCTGCTCAACGAGCTGAGTGTGTGCTGT 666
Db 271 TAGGCGTGGGGGCGGCGTCAAGACTGCGCGGACAGCTCCAGTGCAGTGTGCTGCGCTGC 330
Qy 667 TATGAATTAACCTTCACTTCTGCGGCTGCTTGTGAAGAAGATGTTGTTCAAGTTACC 726
Db 331 TACAGCTGACCTTCAACAGCGGGCCGGTGGCGGGCAAGAAGATGATGTGACAGCGAC 390
Qy 727 AACACGGGTGGCGATTTAGGCTTAACCATTTGATTGTGAATAAGCCGGGTGGGCGTT 786
Db 391 AACACGGGTGGCGACTGGGGAGACACCATTTGACTGGCATCCCGGTGGGCGGTTC 450
Qy 787 GGTATCTTCAATGCTGCTGCTCAATGAGGCGCTCCCAATGATGCTGGGAGCTAGA 846
Db 451 GGTATTTTCAACGCTGCTCAACGACATGAGGCGCTCCCGAAGCGCTGGGAGGACCGC 510
Qy 847 TATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 906
Db 511 TACGCGGCGATTCATTCGAAGAGAGTGCGAATCTTCCCGAGGCGCTCAACCCGGC 570
Qy 907 TGTAAATGAGATTCACCTGGTTCGAAGACTCTGATTAACCTTACATGACCTTGAAGAA 966
Db 571 TGCACCTGGCGCTTCGACTGGTTCGAAGACCGCAACCCGCTGCTACCTTCCAGAG 630
Qy 967 GTTACTGTCTCTGCTGATTAAC 989
Db 631 GTGGCTTGGCCGCTGGAGCTCAC 653

RESULT 10
US-10-007-521-1
Sequence 1, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schulein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kaupinen, Markus S.
Lange, Lene
Nielsen, Rudy I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007.521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651.136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:

LENGTH: 960 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 113..787
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-007-521-1

Query Match 17.6%; Score 179; DB 9; Length 960;
Best Local Similarity 62.8%; Pred. No. 4.1e-47;
Matches 278; Conservative 0; Mismatches 165; Indels 0; Gaps 0;

547 GGTGTAATGTTTATGTTAACAACAACCAACCTGGGCTGTAAGTATAGCTGCT 606
323 GGGGAGGCGCTTAACATGCTCTCTCCAGAGCCCTGCGCTGACGACGAGCTGTG 382
607 TACGGTTTCGCTGCTCTCTATTTGCTGCTCCAAAGAGTGAATGTTGTGCTGT 666
383 TACGGCTGGGCGGCGGTCAAGCTCGCGGAGCTCGAGTCCAGTGTGCTGCGCTGC 442
667 TATGAATGACCTTCACTTCTGCGCGCTCTTCTGAAAGAAATGTTTCAATTAC 726
443 TACGAGCTGACCTTCAACGCGGCGCGGTGCGGCGGAGAGATGATGTGAGCGACC 502
727 AACACCGGAGGCGATTTAGGCTCTAAACAATTGATTTGCAATGCGCGGTGCTG 786
503 AACACCGGAGGCGATTTAGGCTCTAAACAATTGATTTGCAATGCGCGGTGCTG 786
787 GGTATCTTCAATGCTGCTGCTGCTCAATGCGGCGCTCCCAATGATGCTGGGAGCTG 846
563 GGTATTTTCAACGCTGACGACGACGAGTACGGGCTCCCGGACGCGTGGGCGACG 622
847 TATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 906
623 TACGGGCGGATCCATTTCAAGAGAGTGCAGATCTTCCGAGGCGCTCAAGCCGCG 682
907 TGTAAATGAGATTAACATGTTCAAGAACTGTAATACCTTACATGACCTTCAAGAA 966
683 TGCATCTGCGCTTCACTGCTGCTTCAAAAGCGGAGAACCTCGGTACCTTCAAGAG 742
967 GTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 989
743 GTGCGCTGCGCGCTGCGAGCTCAC 765

RESULT 11
US-10-007-521-19
Sequence 19, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schuelein, Martin
Andersen, Lene N.
Laeser, Soren F.
Kauplunen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ikara, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESSES:
ADDRESS: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366,200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 1031 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 11..889
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-007-521-19

Query Match 17.5%; Score 178.4; DB 9; Length 1031;
Best Local Similarity 58.5%; Pred. No. 6.7e-47;
Matches 352; Conservative 0; Mismatches 241; Indels 9; Gaps 2;

415 AACACTGTTATGGAATGTTGTAAGCTTCTGACGCTGCGTGAAGCTTCTGTC 474
77 ACGACCGCTACCTGAGCTGCTGCAAGCAAGCTGATGAGTGAAGAGGCTTCTGTT 136
475 ACTGCTCTGTTGACACCTGCTCCCAATGATATCTTTATTAATGATGCAATGCTCA 534
137 TCTGCTCAGTCAGAACTTGGATGATGTAATGAAATACCTTGGCCAGAGTGAAGAGC 196
535 AGTGGTTGTAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 594
197 GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 256
595 GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 654
257 AATAACACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 316
655 TGTGTTGCTGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 714
317 TGTGTTGCTGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 376
715 GTTCAAGTACCAACACCGGTGCGATTTAGGCTCTAACCACTTGAATTTGCAATGCGC 774
377 GTTCAAGTACCAACACCGGTGCGATTTAGGCTCTAACCACTTGAATTTGCAATGCGC 436
775 GGTGTTGCTGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 831
437 GGTGTTGCTGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 494
832 GGTGTTGCTGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 891
495 ---GGGTTGCTCAATACGGGGGTGTGTCACCGGTGCAATGCTCCCACTTCCAGCA 550
892 GCTCTTCAAGCTGTTGTAATGAGATTAACATGATTAACATGATTAACATGATTAAC 951
551 GCTGTCAGAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 610
952 ATGACCTTCAAGAGATTAACATGATGATGATGATGATGATGATGATGATGATGATG 1011
611 GTCACTTCCAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 670

QY 1012 AA 1013
Db 671 AA 672

RESULT 12

US-10-007-521-17
Sequence 17, Application US/10007521
Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT:

Schulein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kaupinen, Markus S.
Lange, Lene
Nielsen, Rudy I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION:

No. US20030054539A1e1 Endoglucanases

NUMBER OF SEQUENCES:

109

CORRESPONDENCE ADDRESSES:

ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 1048 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 13..906

SEQUENCE DESCRIPTION: SEQ ID NO: 17:

US-10-007-521-17

Query Match 17.5%; Score 178.4; DB 9; Length 1048;
Best Local Similarity 58.5%; Pred. No. 6.8e-47;
Matches 352; Conservative 0; Mismatches 241; Indels 9; Gaps 2;

QY 415 ACAACTGTTATGGAGTTGTTGAAGCTTCTTGACGCTGCGCGGAAAGCTTCTGTC 474
Db 94 ACGACCGCTACTAGGAGCTGTCGCAAGCAAGCTGTGATGAGAGTGAAGGCTTCTGTT 153
QY 475 ACTGATCTGTGACACCTGTGCTCCCAATGATCTCTTATTAGATGCCAATGCTCAA 534
Db 154 TCTGCTCAGTCAGAACTTGGATGCTAATGAAATACACTTGGCCCGACGAGTGAAGC 213
QY 535 AGTGGTGTAAAGGTGATGTTTCAATGTGTAAACAACAACAACCTTGGGCTGTCAAT 594

Db 214 GGATGTATAGCGGTGAGACGTCAATTCATTCGCGCAACAATGTCATTTGCGATTGAC 273
QY 595 GATAGCTCGCTTACGCTTTCGCTGCTGCTCTTATGCTGCTGCTCAAGAACTGATAG 654
Db 274 AATTAACACTGATATGATTTGCTGACAGCCCACTTACGGGCTTACGAGAGCGCTGG 333
QY 655 TGTGTGCTGTTATGAATGACCTTTCATCTTGGCGCTGCTTCTGGAAGAAGATGTT 714
Db 334 TGTTCAGAGCTCAAGAAATGAGCTTACAGATGACCCGATGTGGGAAGAACTGACC 393
QY 715 GTTCAAGTACCAACACCGGTGCGATTTAGCTTACCACTTGAATTTGCAAAATGCCC 774
Db 394 GTTCAAGTACCAACACCGGTGCGATTTAGCTTACCACTTGAATTTGCAAAATGCCC 453
QY 775 GTGTGCGCTGTTATCTTCA---ATGGCTGTCTCTCAATGGGCGCTCCCAATGAT 831
Db 454 GTGTGAGGTGTGCTCTTTCACCAAGAGTCTCTCTCAATGGGCGCTCCCAATGAT 511
QY 832 GGCTGGGAGCTAGATATGATGCTGCTGCTCTCTCTCTGCTGCTCTCTCTCTCTCT 891
Db 512 ---GGGTGCTCAATACGGGGGTGTGTCCAGCGGTGACCAATCTCCCACTTCCAGCA 567
QY 892 GCTCTTCAAGCTGTTGTAATGAGATTCATCTGTTCAAGAACTTGAATACCTTACC 951
Db 568 GCTGTCAAGCTGATGATTCATCTGTTGATGATGATGATGATGATGATGATGATGAT 627
QY 952 ATGACCTTCAAGAAATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1011
Db 628 GTCACTTCCGACCTGTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 687
QY 1012 AA 1013
Db 688 AA 689

RESULT 13

US-10-007-521-21
Sequence 21, Application US/10007521
Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT:

Schulein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kaupinen, Markus S.
Lange, Lene
Nielsen, Rudy I.
Ihara, Michiko
Takagi, Shinobu

TITLE OF INVENTION:

No. US20030054539A1e1 Endoglucanases

NUMBER OF SEQUENCES:

109

CORRESPONDENCE ADDRESSES:

ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 1132 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 42..971

SEQUENCE DESCRIPTION: SEQ ID NO: 21:

US-10-007-521-21

Query Match

Best Local Similarity 57.1%; Score 177.6; DB 9; Length 1132;

Matches 346; Conservative 0; Mismatches 254; Indels 6; Gaps 1;

QY 400 TCTGGAGTGGTTCACCACTGCTATGAGTGGATTGTAAGCTTCTTGACGCTGCT 459
 DB 96 TCTGGACGCGCGGACCAACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 155
 QY 460 GGAAGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 519
 DB 156 GAAAGAGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 215
 QY 520 GATGCCAATGCTCAAGAGTGTGTAACGAGTGTGTAAGTGTGTAAGTGTGTAAG 579
 DB 216 TCCAGCGCGGACGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 275
 QY 580 CTTGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 639
 DB 276 CCGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 335
 QY 640 AAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 699
 DB 336 TCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 355
 QY 700 GGAAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 759
 DB 396 GGAAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 455
 QY 760 GATTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 819
 DB 456 GACATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 515
 QY 820 GCTCCCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 879
 DB 516 GTGAGC-----TTCGCGGAAACCGCTGAGCGGCGGACCAACGAGCGGCAATGCT 569
 QY 880 TCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 939
 DB 570 CAATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 629
 QY 940 GATTAACCTTACATGACTTCAAGAAATTAAGTGTGCTGCTGCTGCTGCTGCT 999
 DB 630 GACAAACCCGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 689
 QY 1000 GGTTCG 1005
 DB 690 GGTTCG 695

RESULT 14

US-10-007-521-13

Sequence 13: Application US/1007521

Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT: Schuler, Martin

Andersen, Lene N.

Larsen, Soren F.

Kauppinen, Markku S.

Lange, Lene

Nielsen, Ruby I.

Ihara, Michiko

Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESSER: No. US20030054539A1 No. US20030054539A1disk of No. US200300545

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

FILING DATE: 10-Dec-2001

CLASSIFICATION: <unknown>

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 913 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 41..706

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

QY 389 CTGGGCGTAATCTGGGAGTGTTCACACCTGCTATGAGTGTGTAAGTGTCTT 448
 DB 84 CTGGGCGTAATCTGGGAGTGTTCACACCTGCTATGAGTGTGTAAGTGTCTT 143
 QY 449 GCACTGCGCTGGAAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 508
 DB 144 GCACTGCGCTGGAAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 203
 QY 509 TCTCTTTTATGATGCAATGCTCAAGTGT--TGTAAAGTGTGTAAGTGTTCAT 565
 DB 204 ACGCCGACGCGGAGGATGCTCAAGTGTGCTGCTGTAAGTGTGCGGACGCTACT 263
 QY 566 GTAACAAACCAACCTTGGGCTGCTCAATGATGAGTGTGCTGCTGCTGCTGCTGCT 625
 DB 264 GCAAGCAACGAGGCGCTGGAAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 323
 QY 626 CTATTGCTGCTGCAAGAACTGATGATGATGATGATGATGATGATGATGATGAT 685
 DB 324 ACTGTCGGAAGACGAGTGTGATGATGATGATGATGATGATGATGATGATGAT 383
 QY 686 CTGGGCTGCTTCTGGAAGAAAGTGTGTAAGTGAACCAACCGGTGCGATTAG 745
 DB 384 CCACGCGGTTCCGGAACCAATGATGCAATTAACGAACACGCGGCGGACCTCG 443

Query Match 16.6%; Score 168.4; DB 9; Length 913;
 Best Local Similarity 56.5%; Pred. No. 1.1e-43;
 Matches 357; Conservative 0; Mismatches 266; Indels 9; Gaps 2;

QY 746 GCTTAAACACTTGTGATTTGCAATGCCGCTGCTGCTGATCTTCAATGCTGTG 805
 Db 444 GCACAAACACTTGTGATTTGCAATGCCGCTGCTGCTGATCTTCAATGCTGTG 503
 QY 806 CTGCTCAATGGGGGGCTCCCAATGATGCTGGGAGCTAGATATGCTGCTGCTG 865
 Db 504 CCAAGCAATGGAGCGCATCAAT-----CTGGCAACCAATATGGCGGCTTCACTGACC 557
 QY 866 TCTGCACTGCT 925
 Db 558 GCTGCAATGTCGACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 617
 QY 926 GCTTCAAGAACTGTATTAACCTTACCATGACCTTCAAGAACTTACCTGCTGCTG 985
 Db 618 GCTTCAAGAACTGTATTAACCTTACCATGACCTTCAAGAACTTACCTGCTGCTG 677
 QY 986 TAACTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1017
 Db 678 TGTGCGCCGGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 709

RESULT 15

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 : Sequence 23, Application US/10007521
 : Publication No. US20030054539A1

GENERAL INFORMATION:

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 Lassen, Soren F.
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 TITLE OF INVENTION: NO. US20030054539A1e1 Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS: 109
 ADDRESS: No. US20030054539A1o No. US20030054539A1dsk of No. US200300545
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Hamblin, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366,200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 885 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..882

? SEQUENCE DESCRIPTION: SEQ ID NO: 23:
 US-10-007-521-23

Query Match 16.5%; Score 168.2; DB 9; Length 885;
 Best Local Similarity 56.9%; Pred. No. 1.2e-43;
 Matches 352; Conservative 0; Mismatches 258; Indels 9; Gaps 2;

QY 389 CTGGCGGTAAATCTGAGAGTGTTCACAACTGCTTATGAGATTTGTAACTTCTT 448
 Db 44 CTGCTCAATGAAGCCTAGCCGCTGACACAGTACTTGGATCTCTGCAAGCGCTT 103
 QY 449 GCAGCTGCTGAAAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 508
 Db 104 GTGCTTGAAGGGGCAAGACATCCGCTTCAAGCCCGTGGAACTTGGCAATCAAGACA 163
 QY 509 TCTCTTTATTAATGATCCAAATGCTCAAAAGTGT---TGTAAAGGTGTAATGTTTCAATG 565
 Db 164 ACGCCAGAGCGCCGAGGATCTGCTCAAGTCTGCTGATGAGGAGCGGCACTTAACT 223
 QY 566 GTAAACAACAACCAACTTGGGCTGTCAATGATGAGCTGCTTACGCTTTCGCTGCTGCT 625
 Db 224 GCAGCAACAGAGGCTCATGGGCTGTAACAGACCTTCTTACGCTTTCGCTGCTGCTG 283
 QY 626 CTATGCTGCTTCAACGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 685
 Db 284 AGCTGTCGGAAGACAGAGACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 343
 QY 686 CTGGCGCTGCTTCTGGAAGAGATGCTTCAAGTACCAACACCGTGGCACTTAG 745
 Db 344 CCACCGCGCTTCTGGAAGAGATGCTGCAAAATCACAAACAGCGGCGGCACTTGG 403
 QY 746 GCTTAAACACTTGTGATTTGCAATGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 805
 Db 404 GCACAAACACTTGTGATTTGCAATGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 463
 QY 806 CTGCTCAATGGGGGCTCCCAATGATGCTGGGAGCTAGATATGCTGCTGCTGCTG 865
 Db 464 CCAAGCAATGGAGCGCATCAAT-----CTGGCAACCAATATGGCGGCTTCACTGACC 517
 QY 866 TCTGCACTGCT 925
 Db 518 GCTGCAATGTCGACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 577
 QY 926 GCTTCAAGAACTGTATTAACCTTACCATGACCTTCAAGAACTTACCTGCTGCTG 985
 Db 578 GCTTCAAGAACTGTATTAACCTTACCATGACCTTCAAGAACTTACCTGCTGCTG 637
 QY 986 TAACTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1004
 Db 638 TGTGCGCCGGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 656

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